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| APPLICATION NO.                         | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO.         |  |
|---|-----------------|----------------------|-------------------------|--------------------------|--|
| 10/811,896                              | 03/30/2004      | Jin-seok Lee         | 1572.1246               | 1334                     |  |
| 21171                                   | 7590 02/13/2006 |                      | EXAMINER                |                          |  |
| STAAS & HALSEY LLP                      |                 |                      | VINH, LAN               |                          |  |
| SUITE 700<br>1201 NEW YORK AVENUE, N.W. |                 |                      | ART UNIT                | PAPER NUMBER             |  |
|   | ON, DC 20005    |                      | 1765                    |                          |  |
|   |                 |                      | DATE MAIL ED. 02/12/200 | DATE MAIL ED. 02/12/2006 |  |

DATE MAILED: 02/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |  |   |  | <i>\</i> |  |
|---|--|---|--|----------|--|
|   |  | Application No.   | Applicant(s)   |          |  |
| <u>.</u>  |  | 10/811,896  | LEE ET AL.   |          |  |
| Office Action Summary   |  | Examiner  | Art Unit .   |          |  |
|   |  | Lan Vinh  | 1765   |          |  |
| Period f  | The MAILING DATE of this communication apoor Reply   | pears on the cover sheet with   | h the correspondence address   | 5        |  |
| WHI<br>- Extended<br>aftended<br>- If No<br>- Fail<br>Any   | HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING Densions of time may be available under the provisions of 37 CFR 1.7 If I/O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statutor reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNIC<br>136(a). In no event, however, may a rep<br>will apply and will expire SIX (6) MONT<br>e, cause the application to become ABA | ATION. ply be timely filed  HS from the mailing date of this communications (35 U.S.C. § 133). |          |  |
| Status  |  |   |  |          |  |
| 1)[🛛  | Responsive to communication(s) filed on 30 M   | <u>//arch 2004</u> .  |  |          |  |
| 2a) <u></u>   | This action is <b>FINAL</b> . 2b) This action is non-final.  |   |  |          |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the me |  |   |  |          |  |
|   | closed in accordance with the practice under   | Ex parte Quayle, 1935 C.D.  | 11, 453 O.G. 213.  |          |  |
| Disposi   | tion of Claims   |   |  |          |  |
| 5) <u></u>  | Claim(s) <u>1-29</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  |   |  |          |  |
| · · · · ·   | Claim(s) <u>1-29</u> are subject to restriction and/or   | election requirement.   |  |          |  |
| Applicat  | tion Papers  |   |  |          |  |
| 9)[   | The specification is objected to by the Examine  | er.   |  |          |  |
| 10)   | The drawing(s) filed on is/are: a) acc   | cepted or b) objected to b  | y the Examiner.  |          |  |
|   | Applicant may not request that any objection to the  | drawing(s) be held in abeyand   | e. See 37 CFR 1.85(a).   |          |  |
| 11)   | Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E   |   |  |          |  |
| Priority  | under 35 U.S.C. § 119  |   |  |          |  |
| a)  | Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document  3. Copies of the certified copies of the priority document  application from the International Burea   | ts have been received.<br>ts have been received in Ap<br>prity documents have been r<br>nu (PCT Rule 17.2(a)).  | plication No eceived in this National Stag   | e        |  |
| * ;   | See the attached detailed Office action for a list   | cot the certified copies not re   | eceived.   |          |  |
| Attachmei   | nt(s)  |   |  |          |  |
|   | ce of References Cited (PTO-892)   | 4) Interview Su   | ımmary (PTO-413)<br>/Mail Date   |          |  |
| 3) 🔲 Info   | ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date  |   | ormal Patent Application (PTO-152)   |          |  |

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## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-20, drawn to an etching apparatus, classified in class 156, subclass 345.33.
  - II. Claims 21-26, drawn to a method for controlling uniformity of factor contributing to etching, classified in class 438, subclass 706
  - III. Claims 27-29, drawn to a gas injector for an etching apparatus, classified in class 118, subclass 716.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process as claimed can be practiced by another materially different apparatus such as an etching chamber that does not require a gas distributor plate (i.e. an etching chamber having a plurality of inlet nozzles)

Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the etching apparatus can employ a pipe network

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to supply gases. The subcombination has separate utility such as supplying gases for a depositing/cleaning apparatus

Inventions II and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case, the process as claimed can be practiced by another materially different apparatus such as a gas injector that does not require a gas distributor plate (i.e. a gas injector comprise a gas ringBecause these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II and III, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of

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the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan Vinh whose telephone number is 571 272 1471. The examiner can normally be reached on M-F 8:30-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571 272 1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 6, 2006